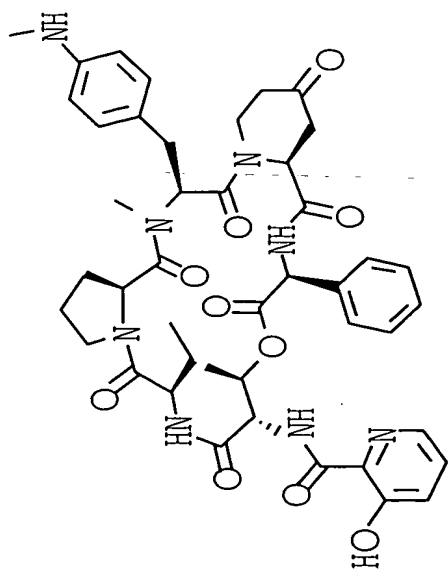


FORMULA 2

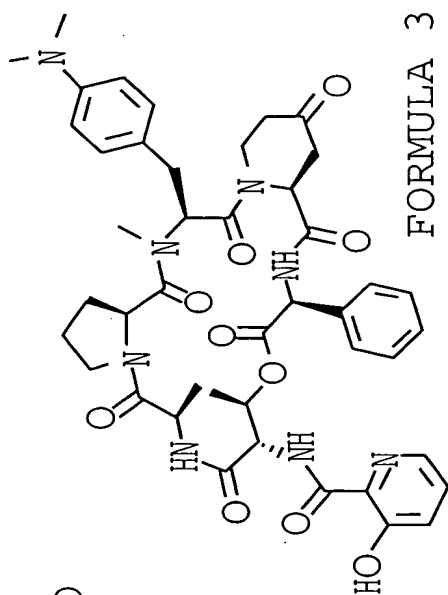
FORMULA 1

FORMULA 1	FORMULA 2
PRISTINAMYCIN IIA	PRISTINAMYCIN IIB
MIKAMYCIN A	
OSTREOGRYCIN A	OSTREOGRYCIN G
STREPTOGRAMIN A	
SYNERGISTIN A-I	
VERNAMYCIN A	
VIRGINIAMYCIN M ₁	VIRGINIAMYCIN M ₂

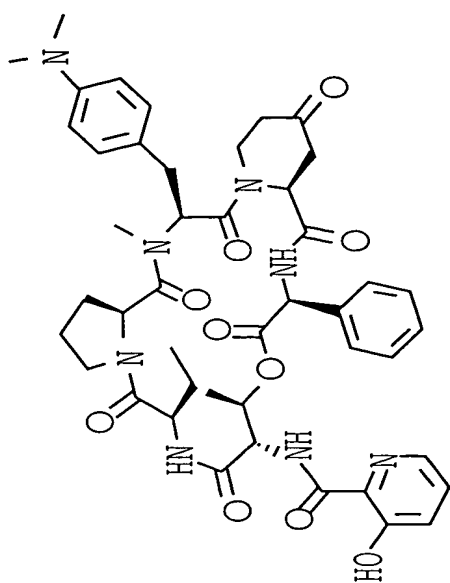
FIG. 1



FORMULA 2



FORMULA 3



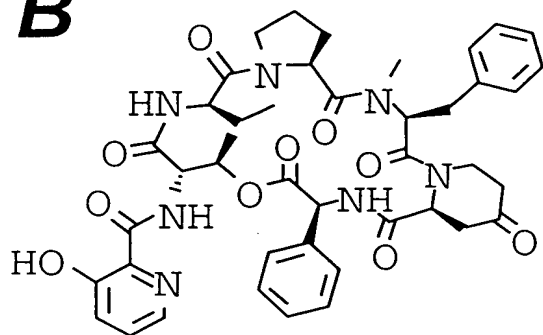
FORMULA 1

FORMULA 1	FORMULA 2	FORMULA 3
PRISTINAMYCIN 1A	PRISTINAMYCIN 1B	PRISTINAMYCIN 1C
STREPTOGRAMIN B		
PA114B1		
VERNAMYCIN B α	VERNAMYCIN B β	VERNAMYCIN B γ
OSTREOGRYCIN B	OSTREOGRYCIN B2	OSTREOGRYCIN B1
MIKAMYCIN 1A		

FIG. 2

C[C@H](C)[C@@H]1OC(=O)N[C@@H](C=C/C=C/[C@H](O)CC(=O)c2c[nH]c3ccccc23)C(=O)N[C@@H](C=C/C=C/[C@H](O)CC(=O)c2c[nH]c3ccccc23)C1

B

CN(C)c1ccc(cc1)C[C@H](C(=O)N[C@@H](Cc2ccccc2)C(=O)N[C@@H](C(=O)N[C@@H](Cc3ccccc3)C(=O)N[C@@H](Cc4ccccc4)C(=O)N[C@@H](Cc5ccccc5)C(=O)N[C@@H](Cc6ccccc6)C(=O)N[C@@H](Cc7ccccc7)C(=O)N[C@@H](Cc8ccccc8)C(=O)N[C@@H](Cc9ccccc9)C(=O)N[C@@H](Cc10ccccc10)C(=O)N[C@@H](Cc11ccccc11)C(=O)N[C@@H](Cc12ccccc12)C(=O)N[C@@H](Cc13ccccc13)C(=O)N[C@@H](Cc14ccccc14)C(=O)N[C@@H](Cc15ccccc15)C(=O)N[C@@H](Cc16ccccc16)C(=O)N[C@@H](Cc17ccccc17)C(=O)N[C@@H](Cc18ccccc18)C(=O)N[C@@H](Cc19ccccc19)C(=O)N[C@@H](Cc20ccccc20)C(=O)N[C@@H](Cc21ccccc21)C(=O)N[C@@H](Cc22ccccc22)C(=O)N[C@@H](Cc23ccccc23)C(=O)N[C@@H](Cc24ccccc24)C(=O)N[C@@H](Cc25ccccc25)C(=O)N[C@@H](Cc26ccccc26)C(=O)N[C@@H](Cc27ccccc27)C(=O)N[C@@H](Cc28ccccc28)C(=O)N[C@@H](Cc29ccccc29)C(=O)N[C@@H](Cc30ccccc30)C(=O)N[C@@H](Cc31ccccc31)C(=O)N[C@@H](Cc32ccccc32)C(=O)N[C@@H](Cc33ccccc33)C(=O)N[C@@H](Cc34ccccc34)C(=O)N[C@@H](Cc35ccccc35)C(=O)N[C@@H](Cc36ccccc36)C(=O)N[C@@H](Cc37ccccc37)C(=O)N[C@@H](Cc38ccccc38)C(=O)N[C@@H](Cc39ccccc39)C(=O)N[C@@H](Cc40ccccc40)C(=O)N[C@@H](Cc41ccccc41)C(=O)N[C@@H](Cc42ccccc42)C(=O)N[C@@H](Cc43ccccc43)C(=O)N[C@@H](Cc44ccccc44)C(=O)N[C@@H](Cc45ccccc45)C(=O)N[C@@H](Cc46ccccc46)C(=O)N[C@@H](Cc47ccccc47)C(=O)N[C@@H](Cc48ccccc48)C(=O)N[C@@H](Cc49ccccc49)C(=O)N[C@@H](Cc50ccccc50)C(=O)N[C@@H](Cc51ccccc51)C(=O)N[C@@H](Cc52ccccc52)C(=O)N[C@@H](Cc53ccccc53)C(=O)N[C@@H](Cc54ccccc54)C(=O)N[C@@H](Cc55ccccc55)C(=O)N[C@@H](Cc56ccccc56)C(=O)N[C@@H](Cc57ccccc57)C(=O)N[C@@H](Cc58ccccc58)C(=O)N[C@@H](Cc59ccccc59)C(=O)N[C@@H](Cc60ccccc60)C(=O)N[C@@H](Cc61ccccc61)C(=O)N[C@@H](Cc62ccccc62)C(=O)N[C@@H](Cc63ccccc63)C(=O)N[C@@H](Cc64ccccc64)C(=O)N[C@@H](Cc65ccccc65)C(=O)N[C@@H](Cc66ccccc66)C(=O)N[C@@H](Cc67ccccc67)C(=O)N[C@@H](Cc68ccccc68)C(=O)N[C@@H](Cc69ccccc69)C(=O)N[C@@H](Cc70ccccc70)C(=O)N[C@@H](Cc71ccccc71)C(=O)N[C@@H](Cc72ccccc72)C(=O)N[C@@H](Cc73ccccc73)C(=O)N[C@@H](Cc74ccccc74)C(=O)N[C@@H](Cc75ccccc75)C(=O)N[C@@H](Cc76ccccc76)C(=O)N[C@@H](Cc77ccccc77)C(=O)N[C@@H](Cc78ccccc78)C(=O)N[C@@H](Cc79ccccc79)C(=O)N[C@@H](Cc80ccccc80)C(=O)N[C@@H](Cc81ccccc81)C(=O)N[C@@H](Cc82ccccc82)C(=O)N[C@@H](Cc83ccccc83)C(=O)N[C@@H](Cc84ccccc84)C(=O)N[C@@H](Cc85ccccc85)C(=O)N[C@@H](Cc86ccccc86)C(=O)N[C@@H](Cc87ccccc87)C(=O)N[C@@H](Cc88ccccc88)C(=O)N[C@@H](Cc89ccccc89)C(=O)N[C@@H](Cc90ccccc90)C(=O)N[C@@H](Cc91ccccc91)C(=O)N[C@@H](Cc92ccccc92)C(=O)N[C@@H](Cc93ccccc93)C(=O)N[C@@H](Cc94ccccc94)C(=O)N[C@@H](Cc95ccccc95)C(=O)N[C@@H](Cc96ccccc96)C(=O)N[C@@H](Cc97ccccc97)C(=O)N[C@@H](Cc98ccccc98)C(=O)N[C@@H](Cc99ccccc99)C(=O)N[C@@H](Cc100ccccc100)C(=O)N[C@@H](Cc101ccccc101)C(=O)N[C@@H](Cc102ccccc102)C(=O)N[C@@H](Cc103ccccc103)C(=O)N[C@@H](Cc104ccccc104)C(=O)N[C@@H](Cc105ccccc105)C(=O)N[C@@H](Cc106ccccc106)C(=O)N[C@@H](Cc107ccccc107)C(=O)N[C@@H](Cc108ccccc108)C(=O)N[C@@H](Cc109ccccc109)C(=O)N[C@@H](Cc110ccccc110)C(=O)N[C@@H](Cc111ccccc111)C(=O)N[C@@H](Cc112ccccc112)C(=O)N[C@@H](Cc113ccccc113)C(=O)N[C@@H](Cc114ccccc114)C(=O)N[C@@H](Cc115ccccc115)C(=O)N[C@@H](Cc116ccccc116)C(=O)N[C@@H](Cc117ccccc117)C(=O)N[C@@H](Cc118ccccc118)C(=O)N[C@@H](Cc119ccccc119)C(=O)N[C@@H](Cc120ccccc120)C(=O)N[C@@H](Cc121ccccc121)C(=O)N[C@@H](Cc122ccccc122)C(=O)N[C@@H](Cc123ccccc123)C(=O)N[C@@H](Cc124ccccc124)C(=O)N[C@@H](Cc125ccccc125)C(=O)N[C@@H](Cc126ccccc126)C(=O)N[C@@H](Cc127ccccc127)C(=O)N[C@@H](Cc128ccccc128)C(=O)N[C@@H](Cc129ccccc129)C(=O)N[C@@H](Cc130ccccc130)C(=O)N[C@@H](Cc131ccccc131)C(=O)N[C@@H](Cc132ccccc132)C(=O)N[C@@H](Cc133ccccc133)C(=O)N[C@@H](Cc134ccccc134)C(=O)N[C@@H](Cc135ccccc135)C(=O)N[C@@H](Cc136ccccc136)C(=O)N[C@@H](Cc137ccccc137)C(=O)N[C@@H](Cc138ccccc138)C(=O)N[C@@H](Cc139ccccc139)C(=O)N[C@@H](Cc140ccccc140)C(=O)N[C@@H](Cc141ccccc141)C(=O)N[C@@H](Cc142ccccc142)C(=O)N[C@@H](Cc143ccccc143)C(=O)N[C@@H](Cc144ccccc144)C(=O)N[C@@H](Cc145ccccc145)C(=O)N[C@@H](Cc146ccccc146)C(=O)N[C@@H](Cc147ccccc147)C(=O)N[C@@H](Cc148ccccc148)C(=O)N[C@@H](Cc149ccccc149)C(=O)N[C@@H](Cc150ccccc150)C(=O)N[C@@H](Cc151ccccc151)C(=O)N[C@@H](Cc152ccccc152)C(=O)N[C@@H](Cc153ccccc153)C(=O)N[C@@H](Cc154ccccc154)C(=O)N[C@@H](Cc155ccccc155)C(=O)N[C@@H](Cc156ccccc156)C(=O)N[C@@H](Cc157ccccc157)C(=O)N[C@@H](Cc158ccccc158)C(=O)N[C@@H](Cc159ccccc159)C(=O)N[C@@H](Cc160ccccc160)C(=O)N[C@@H](Cc161ccccc161)C(=O)N[C@@H](Cc162ccccc162)C(=O)N[C@@H](Cc163ccccc163)C(=O)N[C@@H](Cc164ccccc164)C(=O)N[C@@H](Cc165ccccc165)C(=O)N[C@@H](Cc166ccccc166)C(=O)N[C@@H](Cc167ccccc167)C(=O)N[C@@H](Cc168ccccc168)C(=O)N[C@@H](Cc169ccccc169)C(=O)N[C@@H](Cc170ccccc170)C(=O)N[C@@H](Cc171ccccc171)C(=O)N[C@@H](Cc172ccccc172)C(=O)N[C@@H](Cc173ccccc173)C(=O)N[C@@H](Cc174ccccc174)C(=O)N[C@@H](Cc175ccccc175)C(=O)N[C@@H](Cc176ccccc176)C(=O)N[C@@H](Cc177ccccc177)C(=O)N[C@@H](Cc178ccccc178)C(=O)N[C@@H](Cc179ccccc179)C(=O)N[C@@H](Cc180ccccc180)C(=O)N[C@@H](Cc181ccccc181)C(=O)N[C@@H](Cc182ccccc182)C(=O)N[C@@H](Cc183ccccc183)C(=O)N[C@@H](Cc184ccccc184)C(=O)N[C@@H](Cc185ccccc185)C(=O)N[C@@H](Cc186ccccc186)C(=O)N[C@@H](Cc187ccccc187)C(=O)N[C@@H](Cc188ccccc188)C(=O)N[C@@H](Cc189ccccc189)C(=O)N[C@@H](Cc190ccccc190)C(=O)N[C@@H](Cc191ccccc191)C(=O)N[C@@H](Cc192ccccc192)C(=O)N[C@@H](Cc193ccccc193)C(=O)N[C@@H](Cc194ccccc194)C(=O)N[C@@H](Cc195ccccc195)C(=O)N[C@@H](Cc196ccccc196)C(=O)N[C@@H](Cc197ccccc197)C(=O)N[C@@H](Cc198ccccc198)C(=O)N[C@@H](Cc199ccccc199)C(=O)N[C@@H](Cc200ccccc200)C(=O)N[C@@H](Cc201ccccc201)C(=O)N[C@@H](Cc202ccccc202)C(=O)N[C@@H](Cc203ccccc203)C(=O)N[C@@H](Cc204ccccc204)C(=O)N[C@@H](Cc205ccccc205)C(=O)N[C@@H](Cc206ccccc206)C(=O)N[C@@H](Cc207ccccc207)C(=O)N[C@@H](Cc208ccccc208)C(=O)N[C@@H](Cc209ccccc209)C(=O)N[C@@H](Cc210ccccc210)C(=O)N[C@@H](Cc211ccccc211)C(=O)N[C@@H](Cc212ccccc212)C(=O)N[C@@H](Cc213ccccc213)C(=O)N[C@@H](Cc214ccccc214)C(=O)N[C@@H](Cc215ccccc215)C([illegible]

ETAMYCIN

FIG. 3

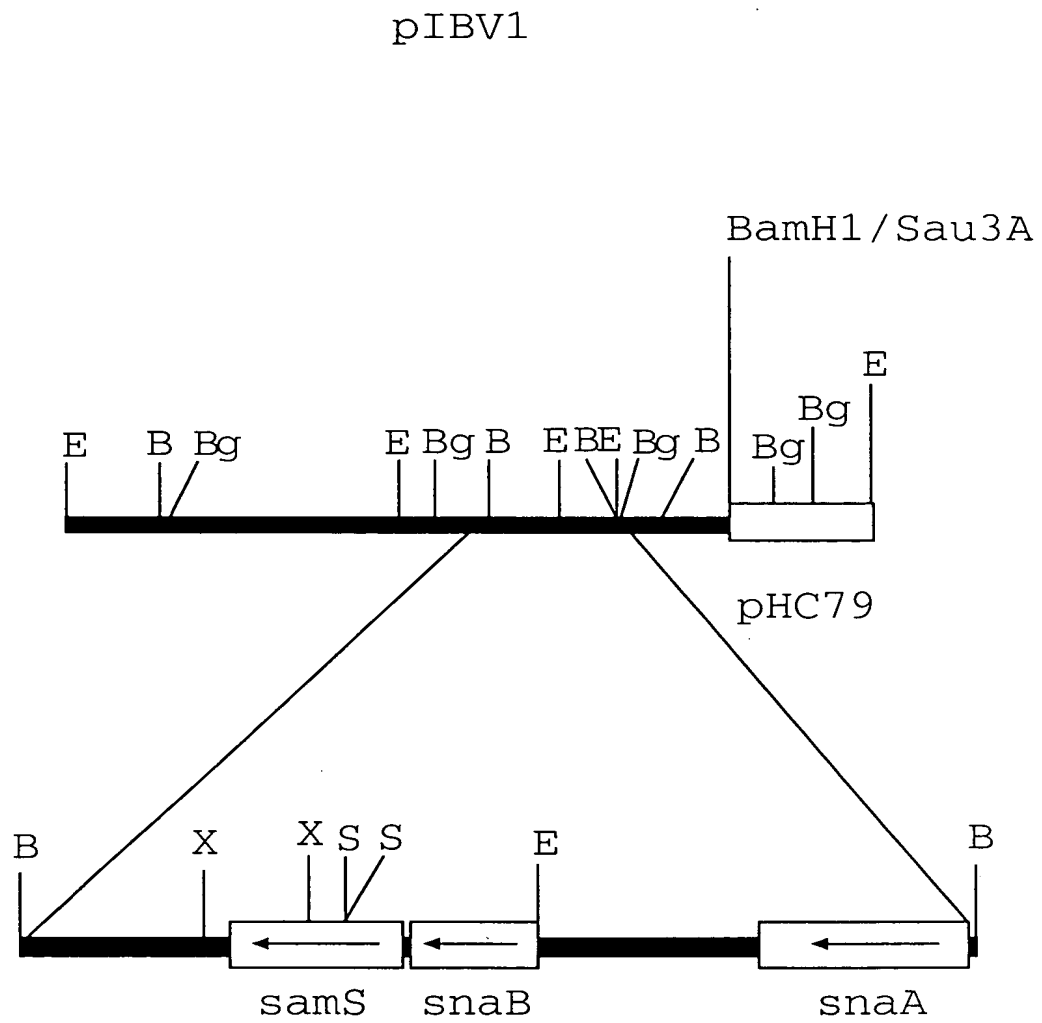


FIG. 4

pIBV2

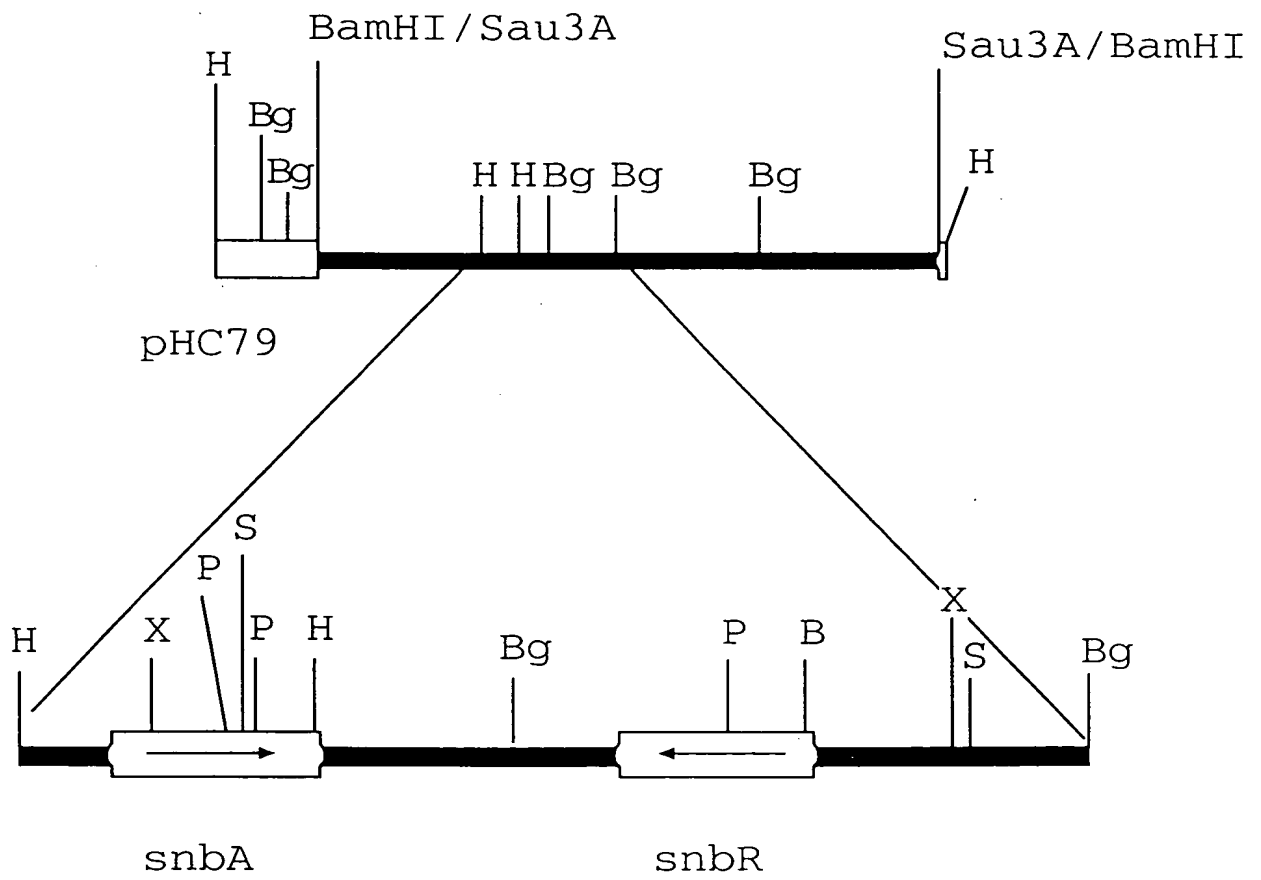
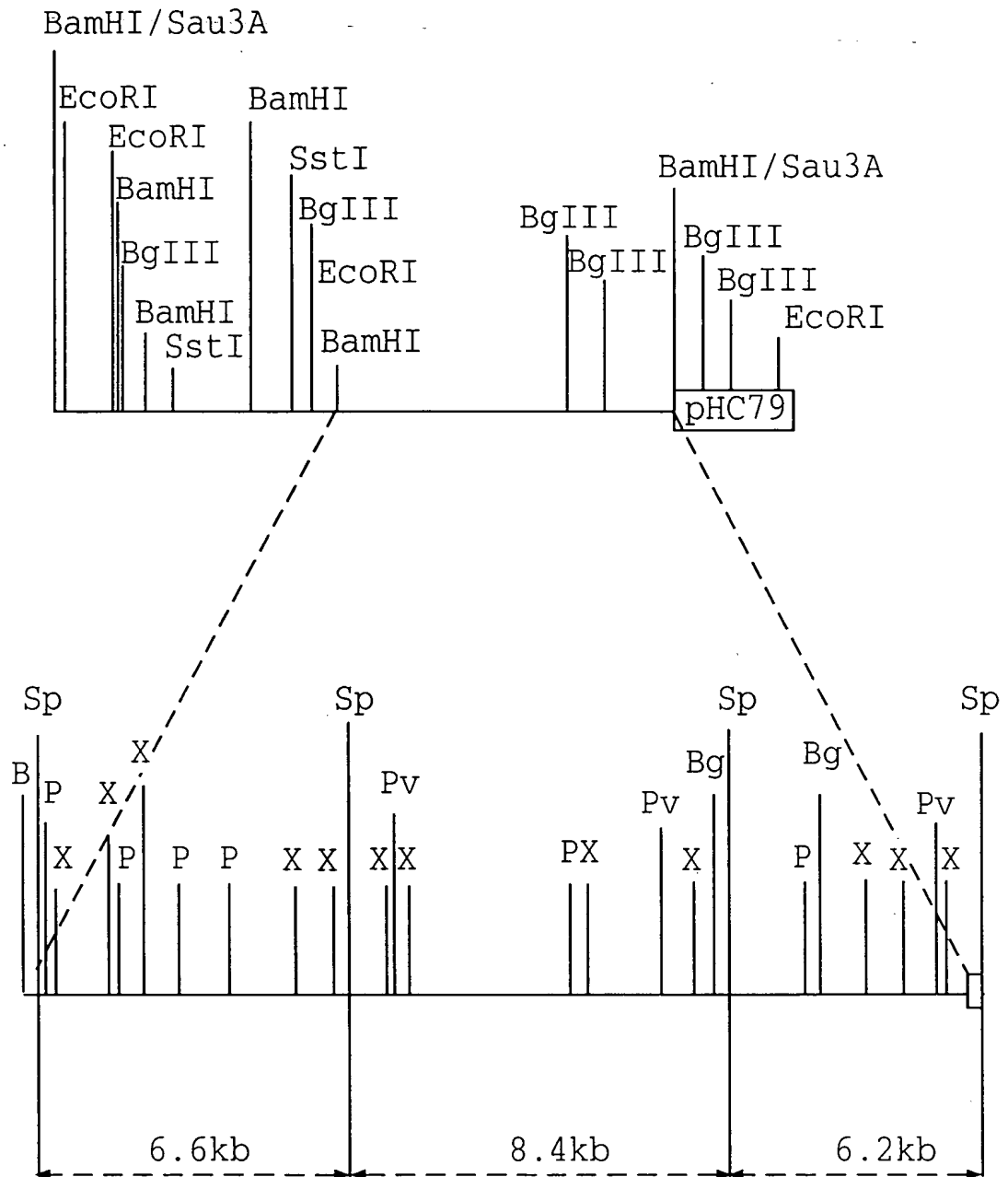


FIG. 5

pIBV3



B: BamHI
 Sp: SphI
 P: PstI
 X: XhoI
 Pv: PvuII

FIG. 6

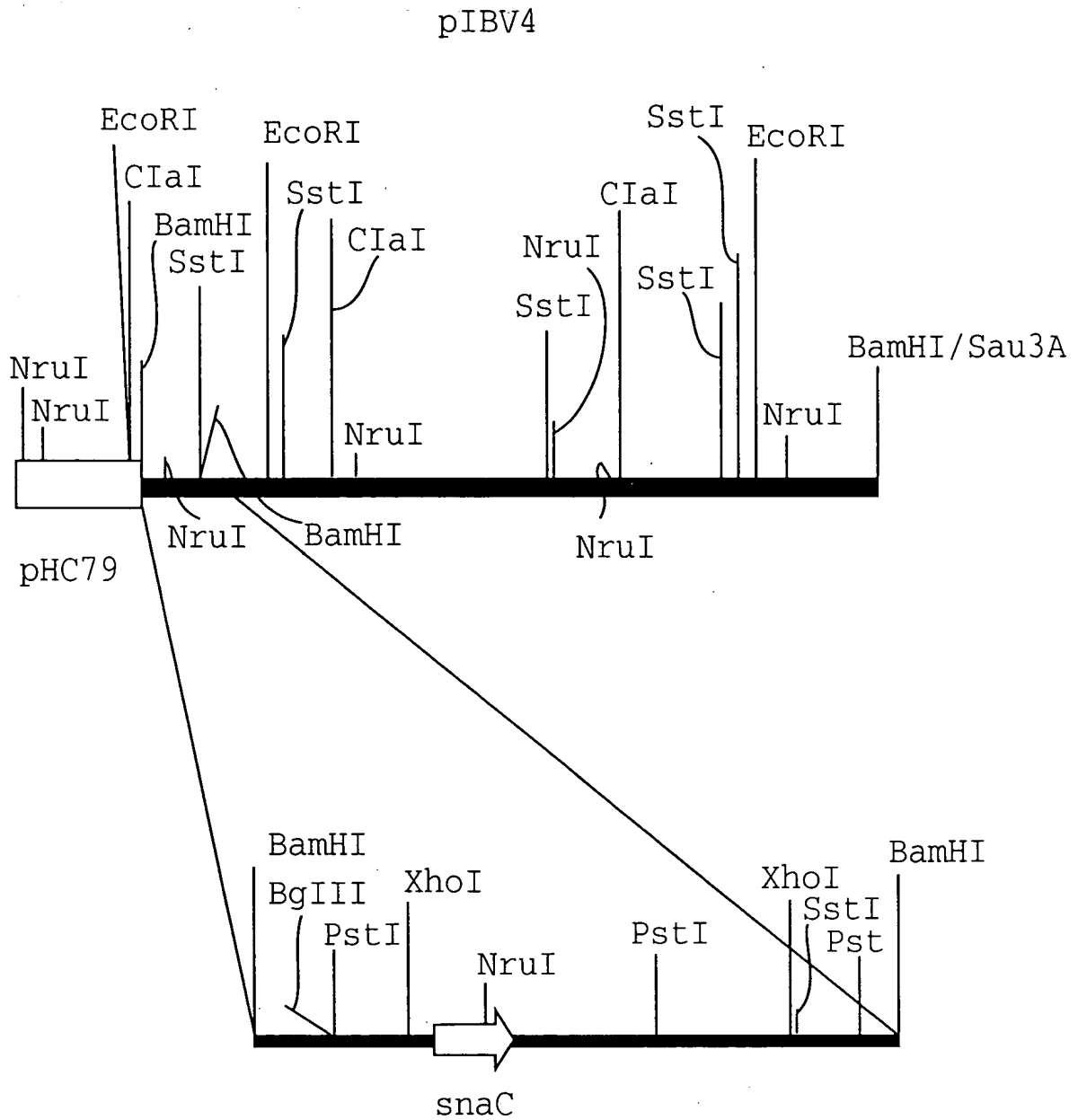


FIG. 7

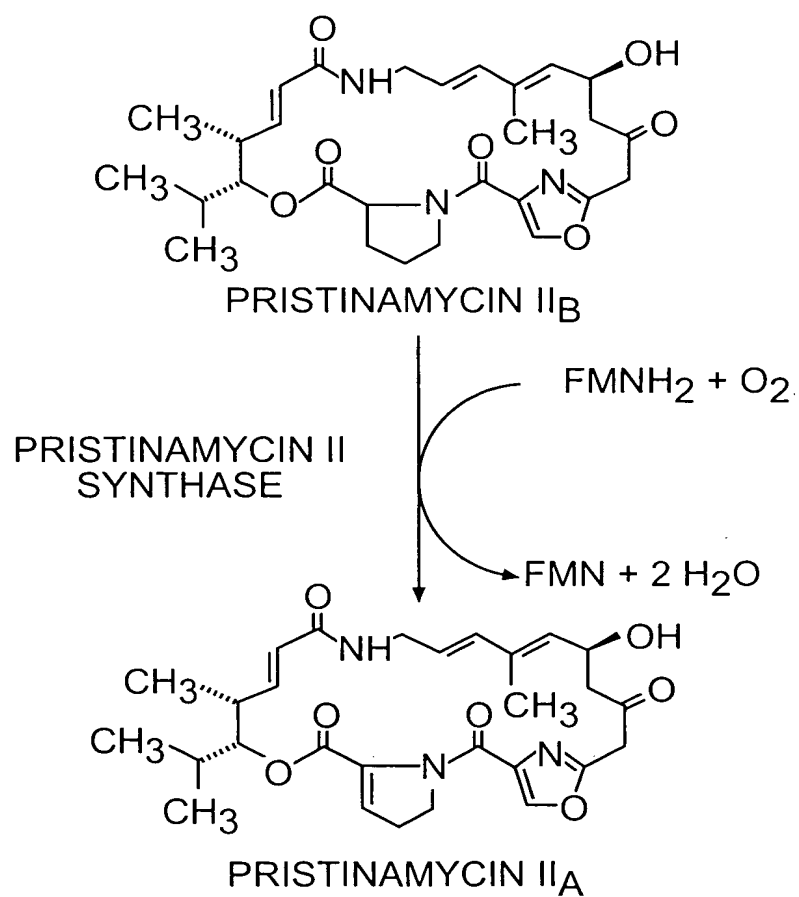


FIG. 8

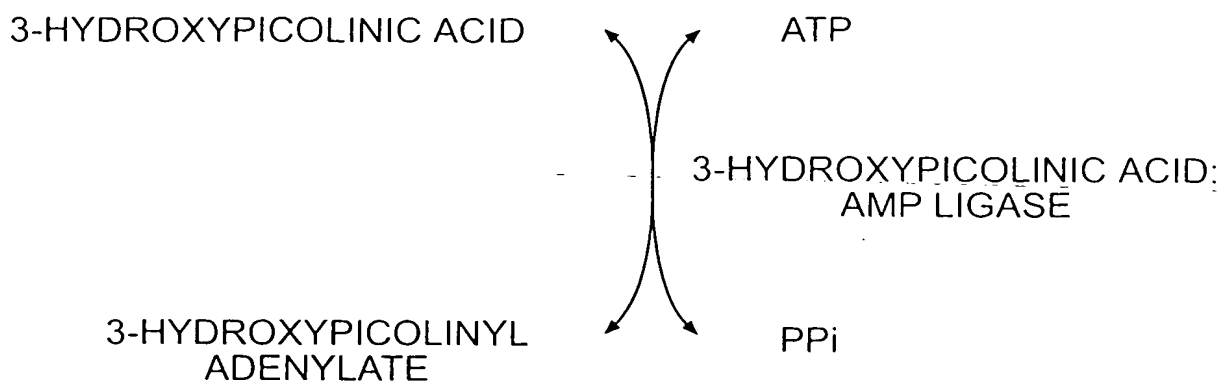


FIG. 9

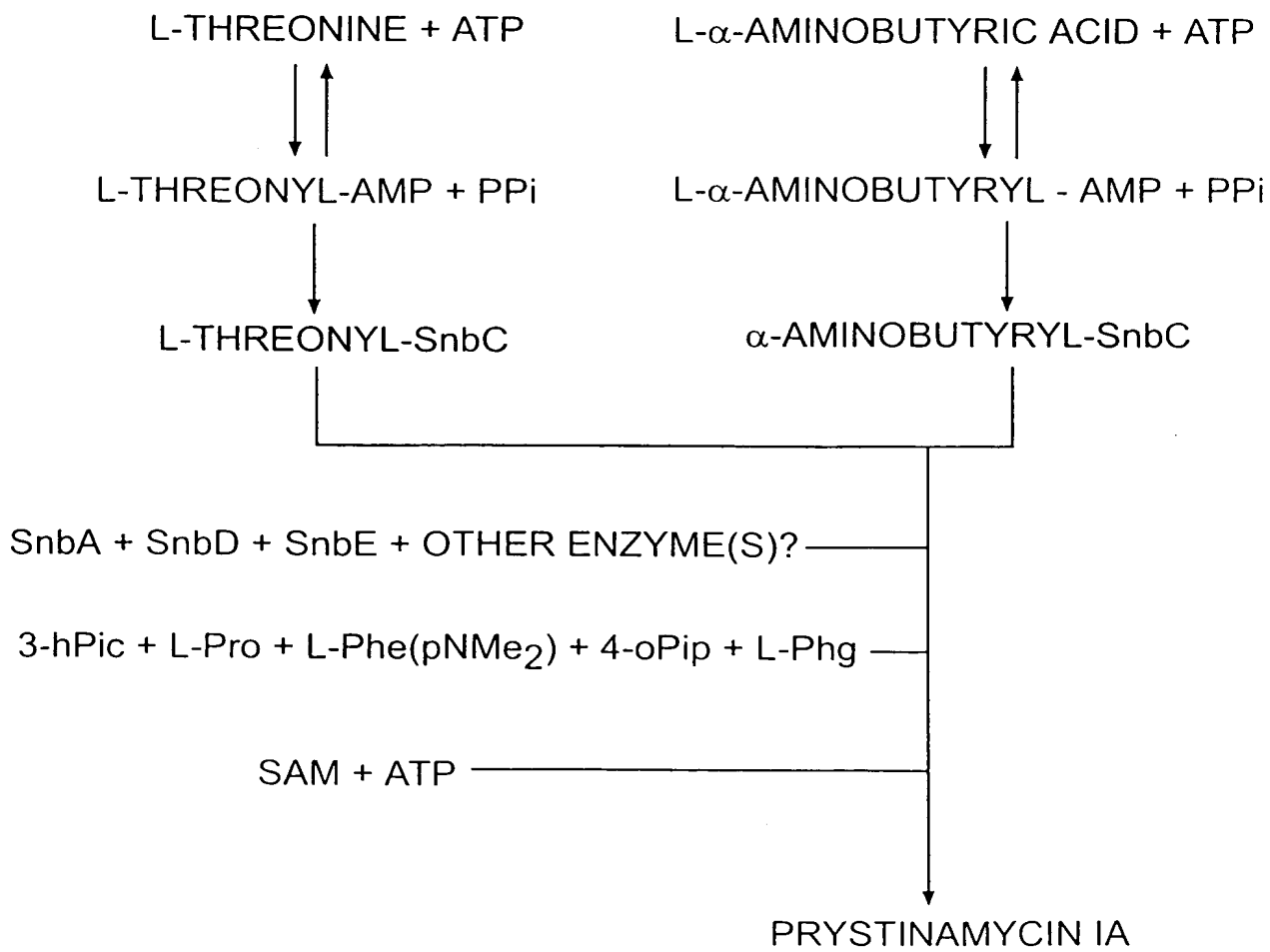


FIG. 10

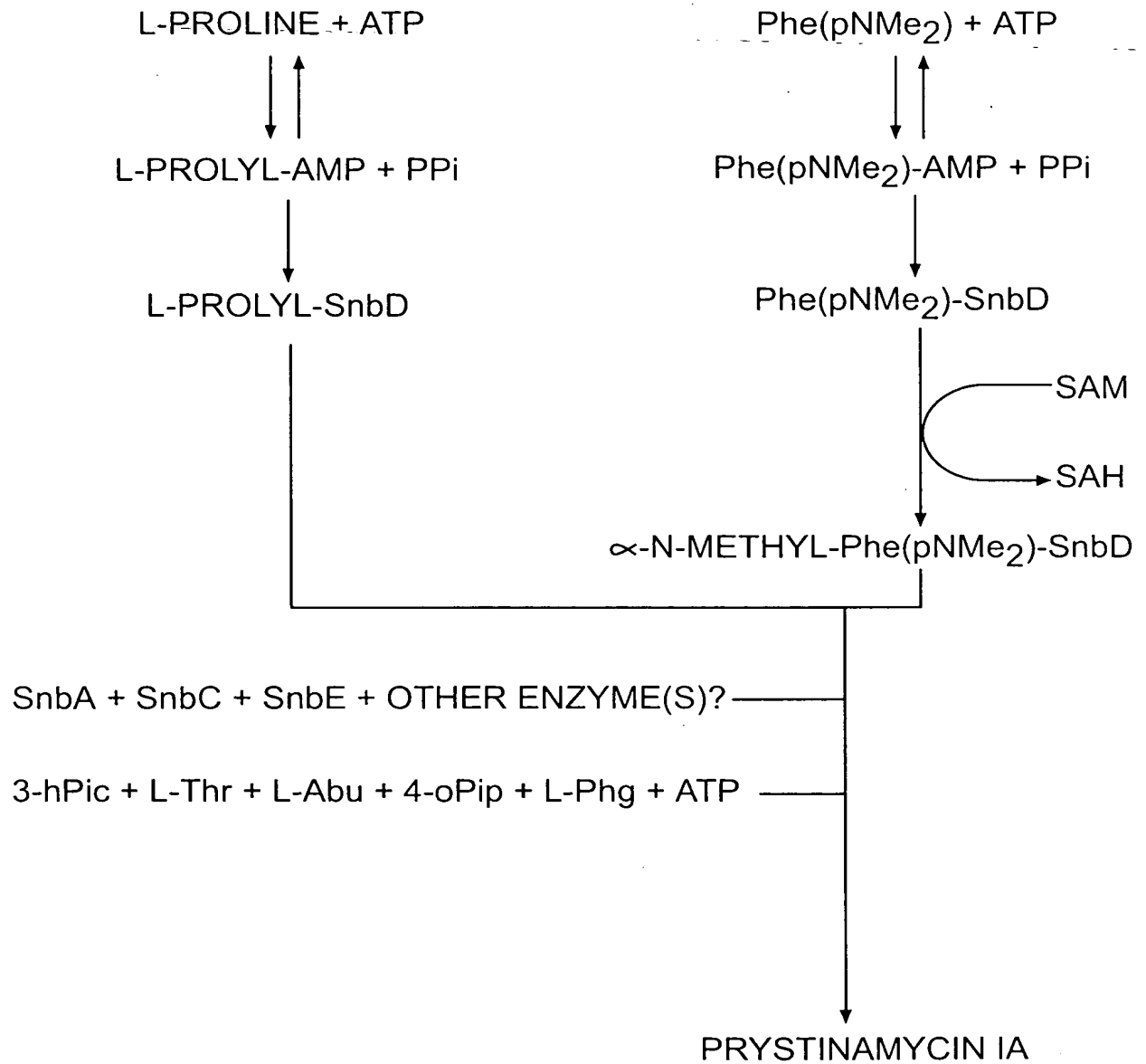


FIG. 11

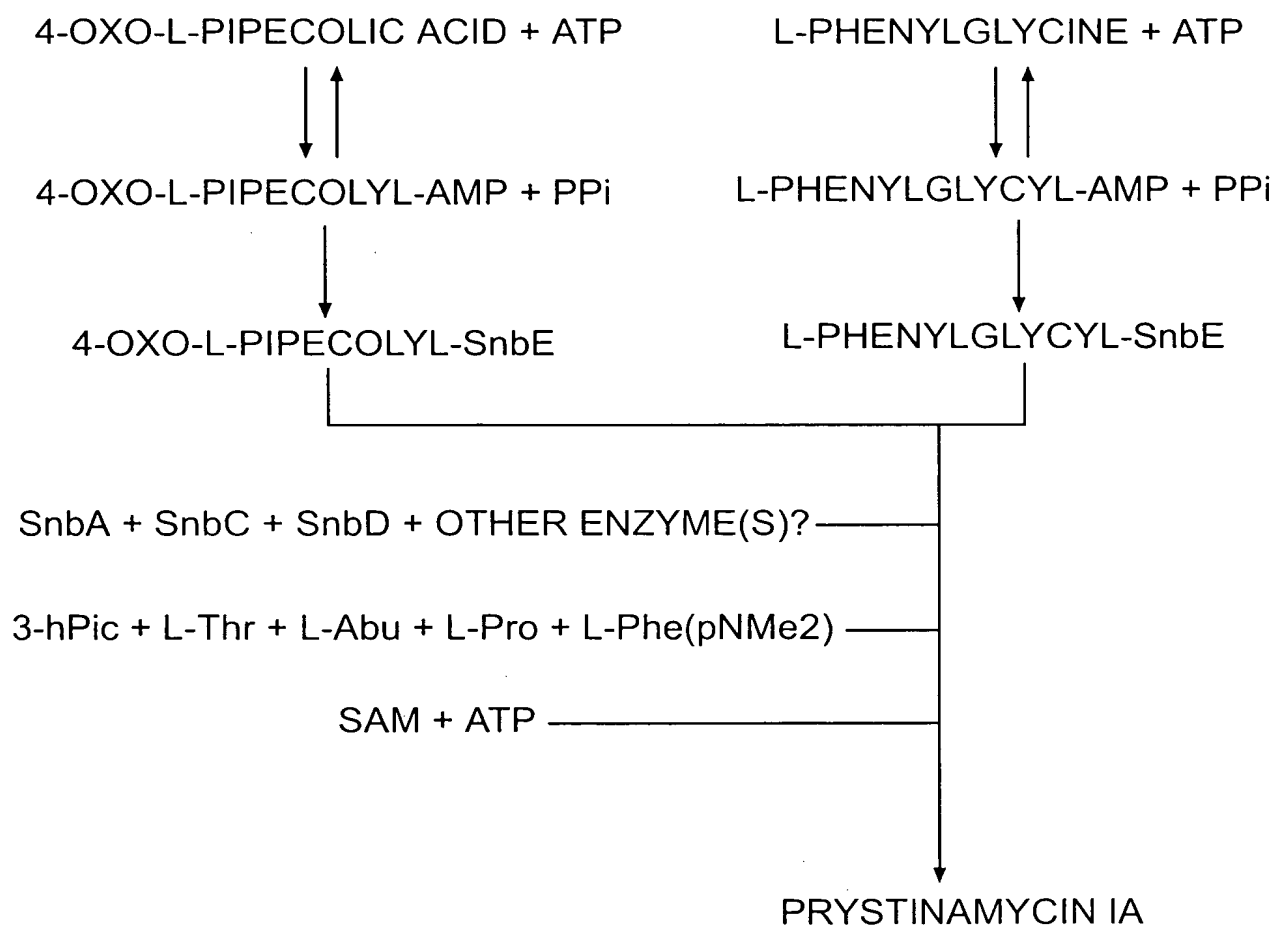
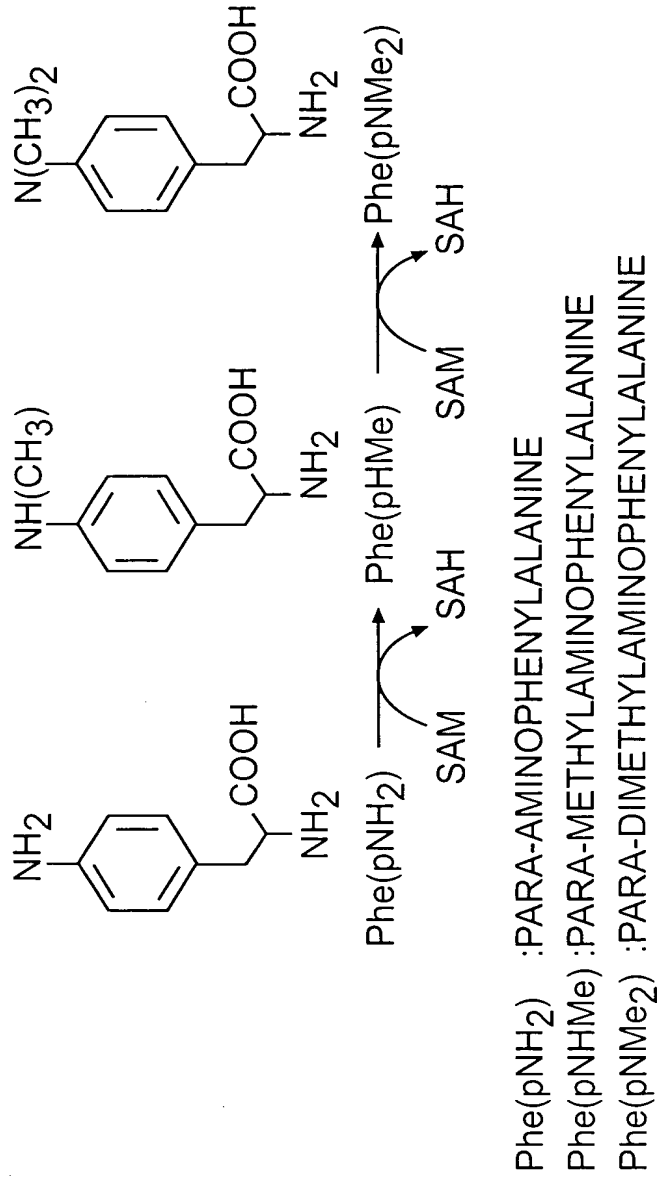
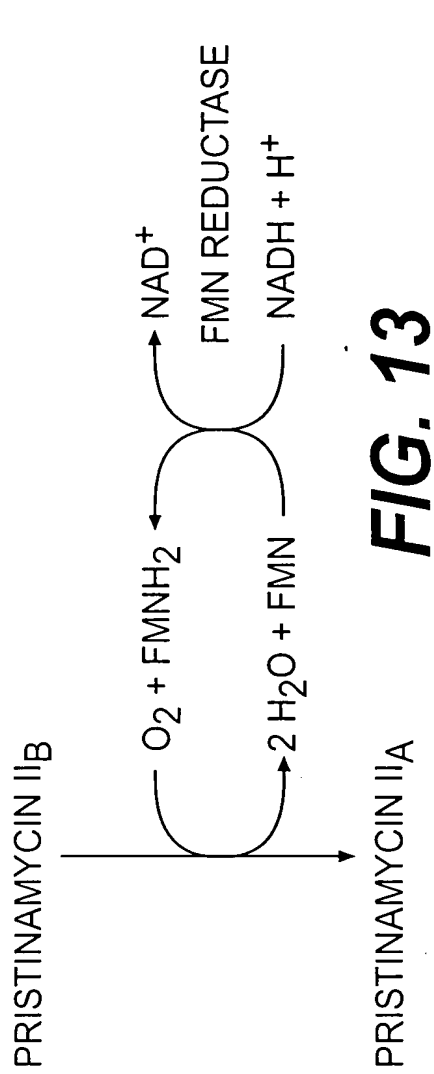


FIG. 12



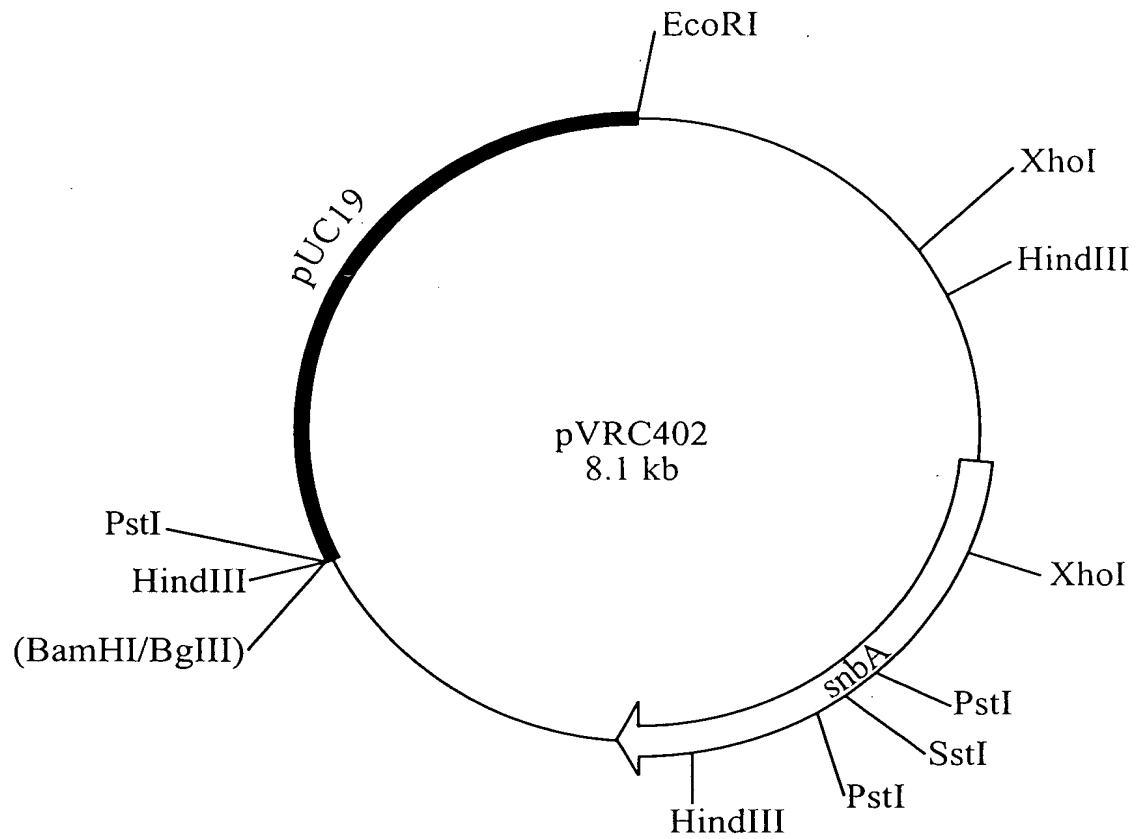


FIG. 15(A)

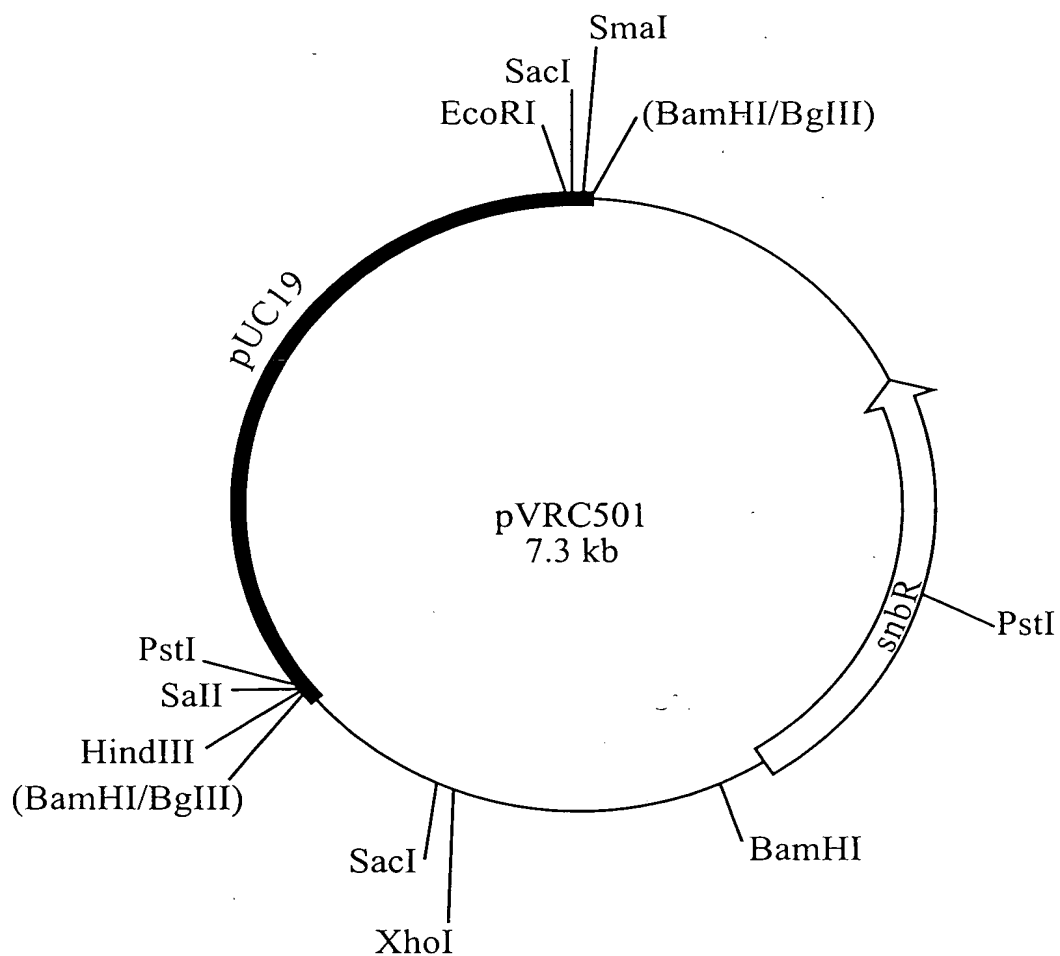


FIG. 15(B)

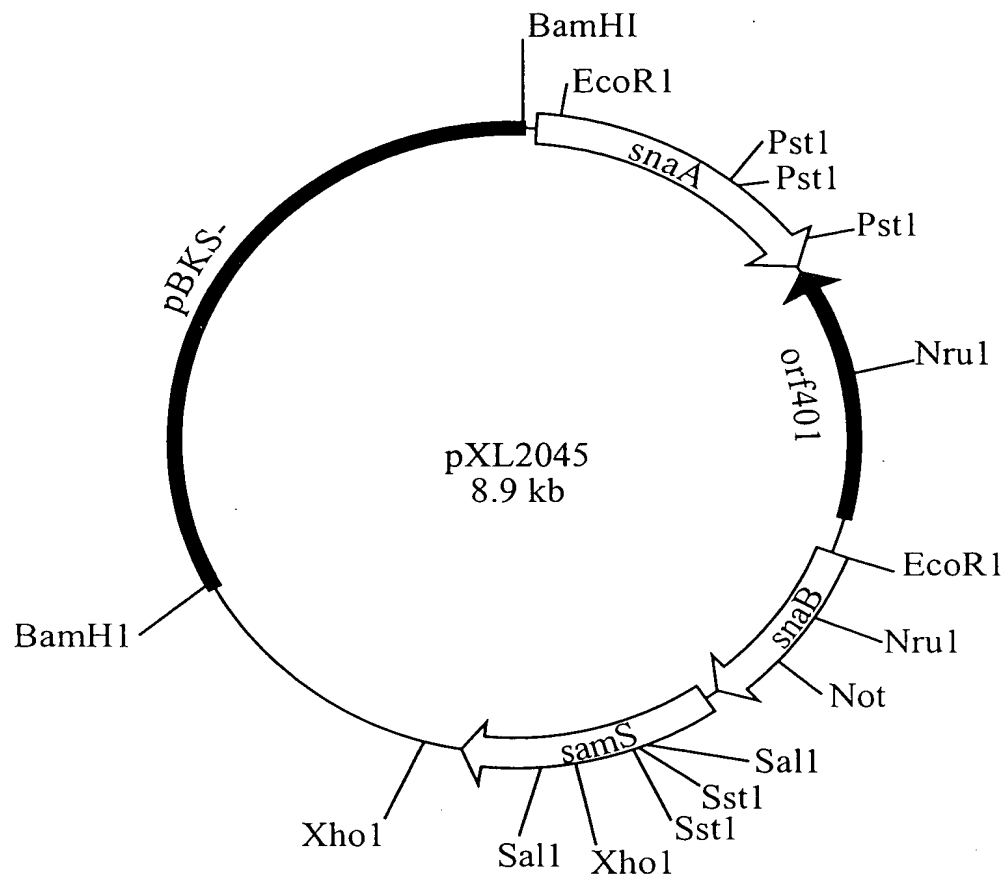


FIG. 16

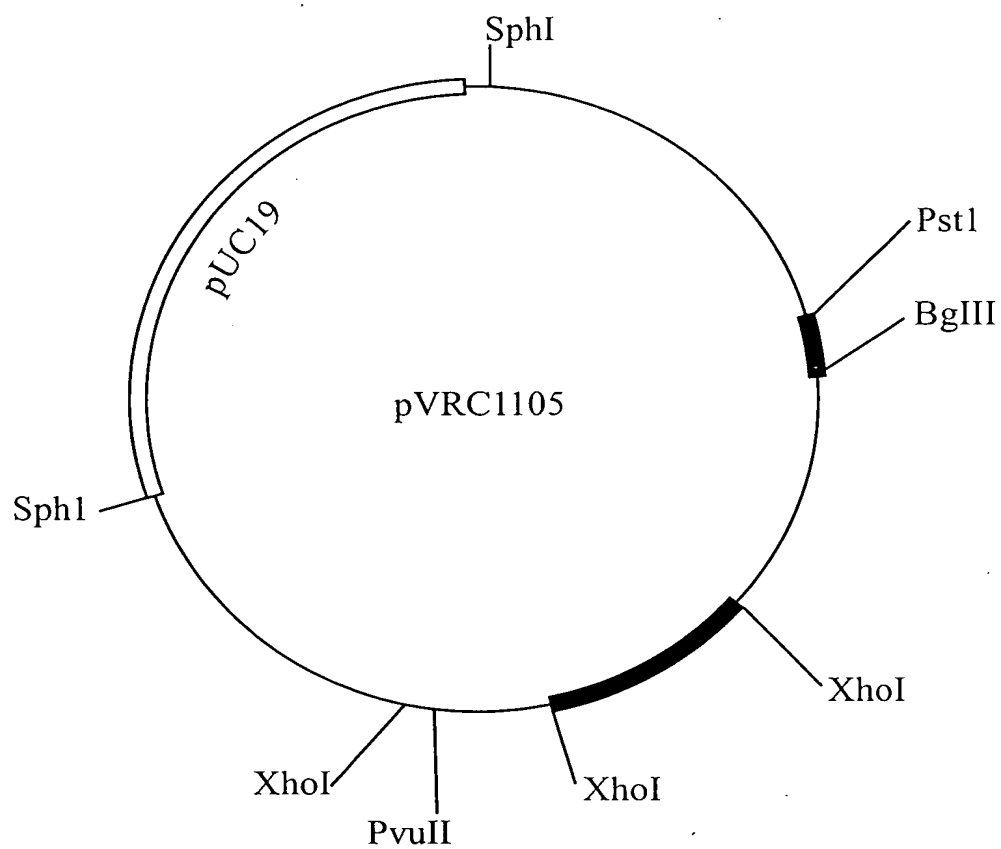


FIG. 17

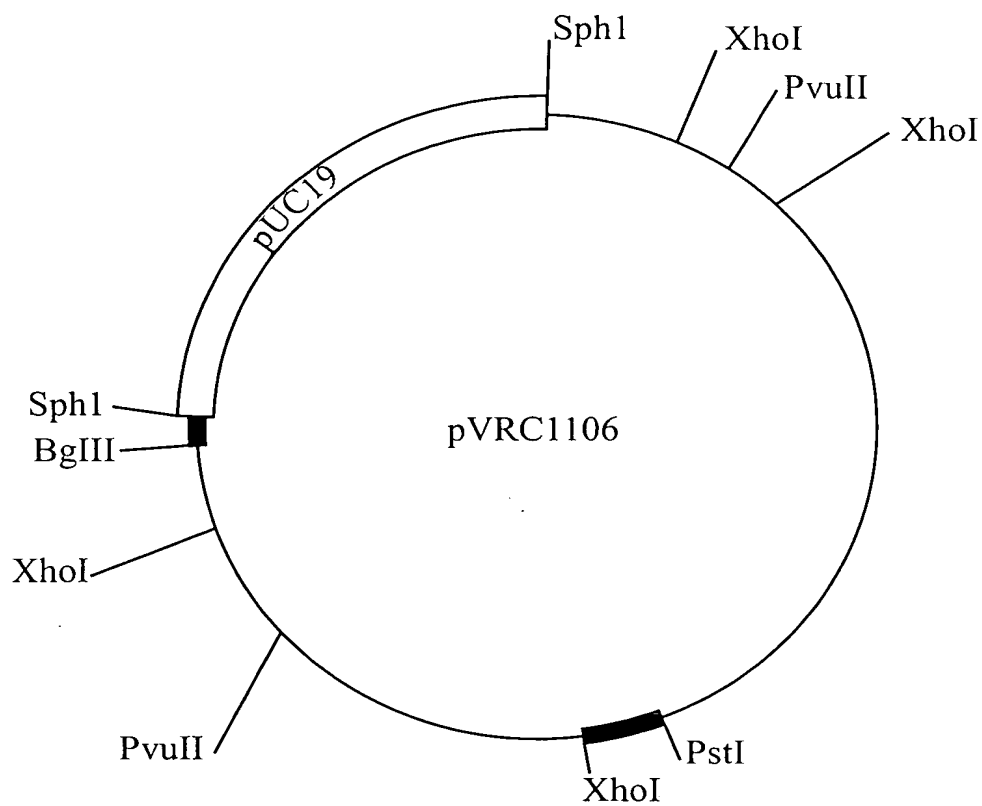


FIG. 18

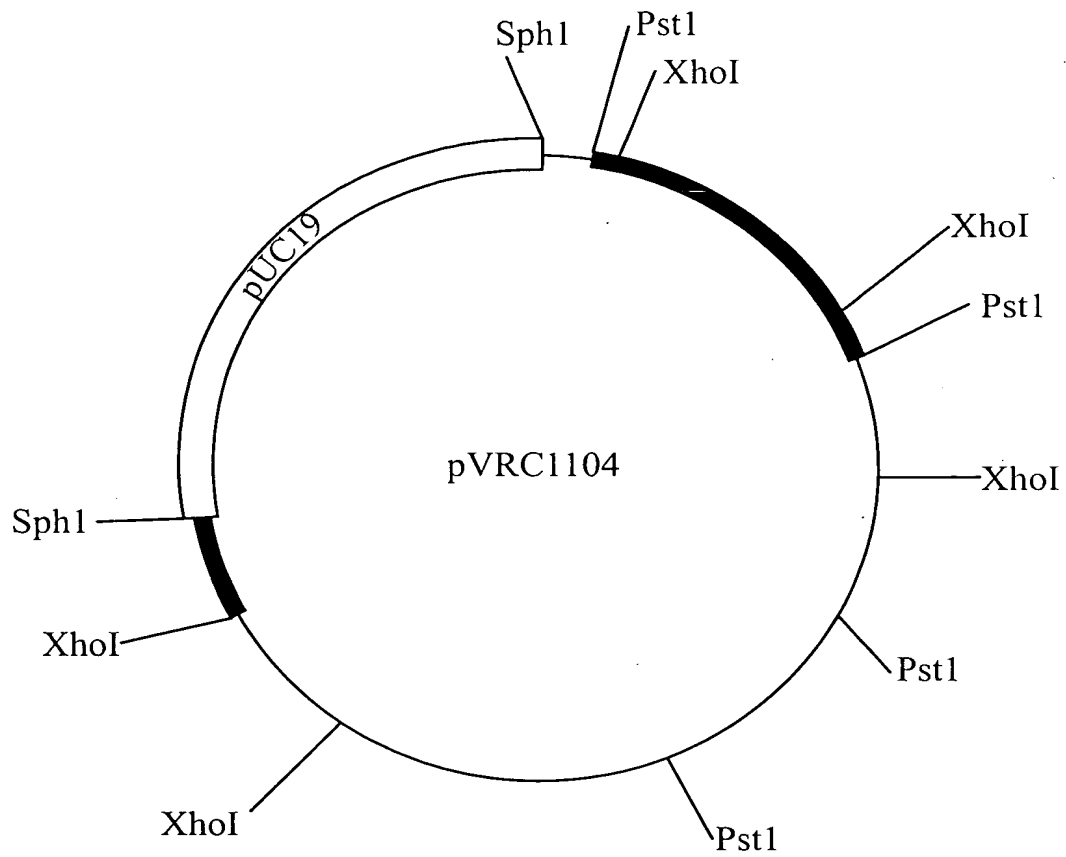


FIG. 19

pVRC900

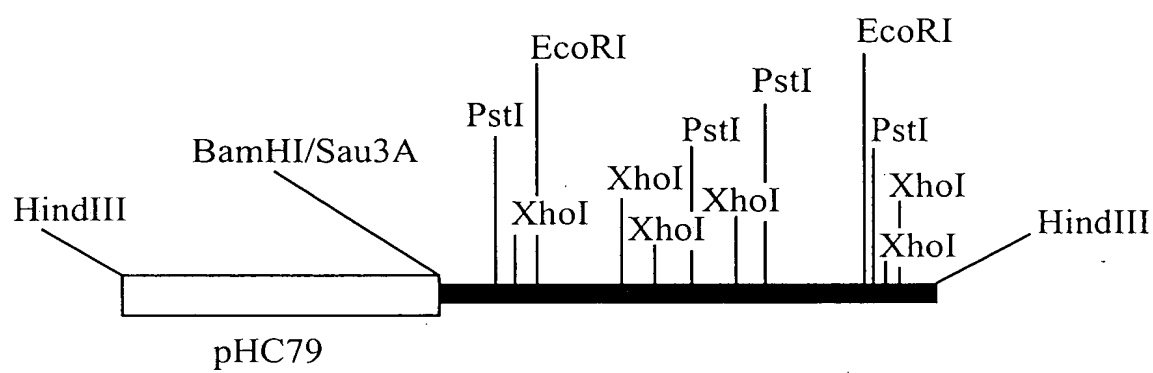


FIG. 20

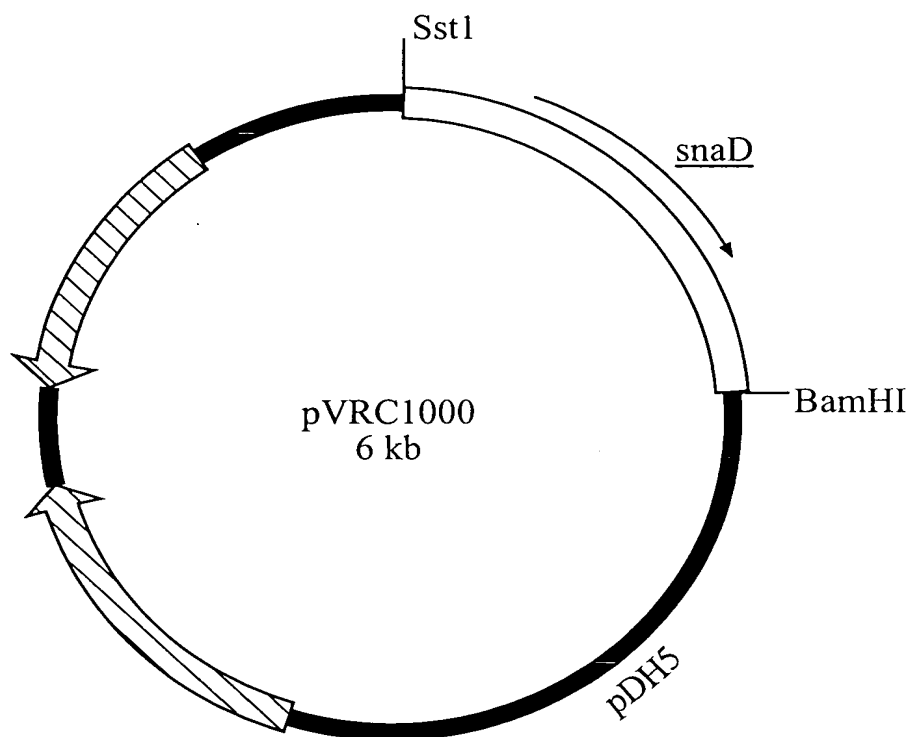


FIG. 21

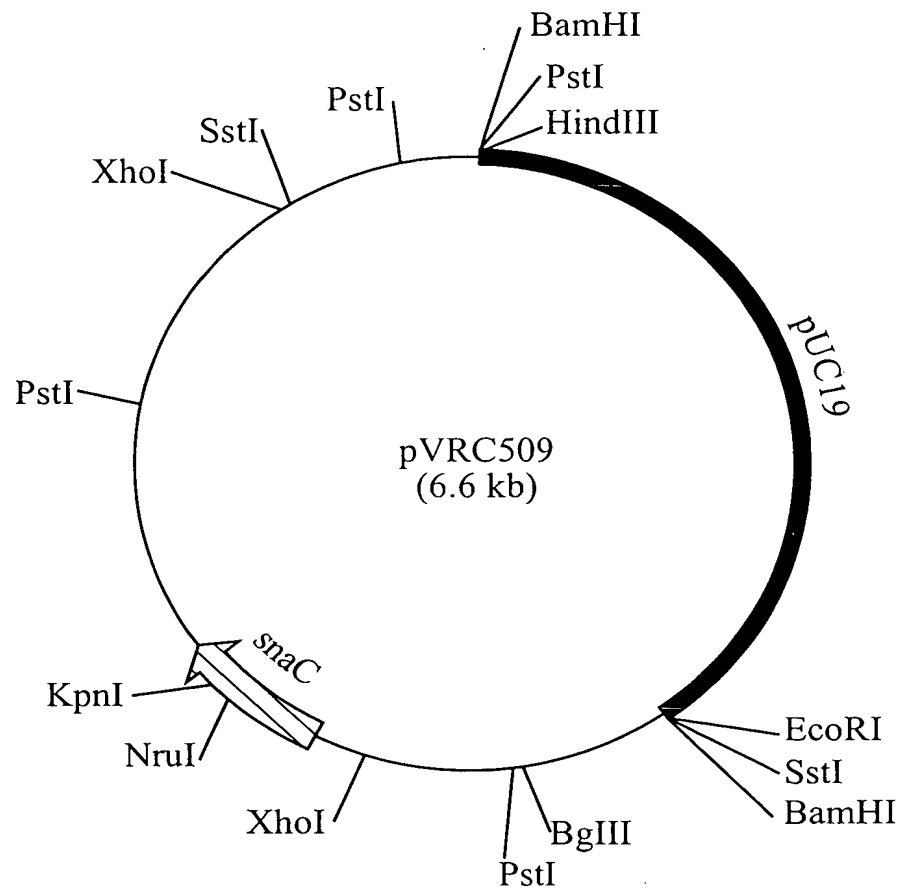


FIG. 22

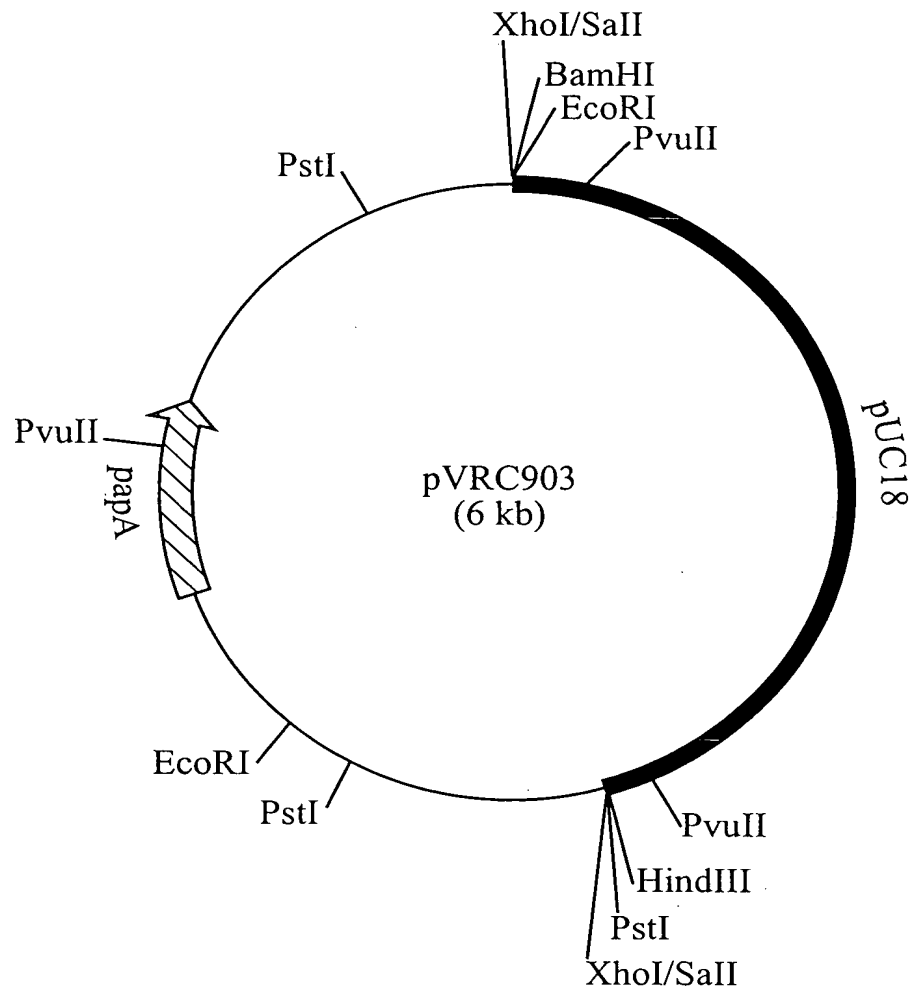


FIG. 23

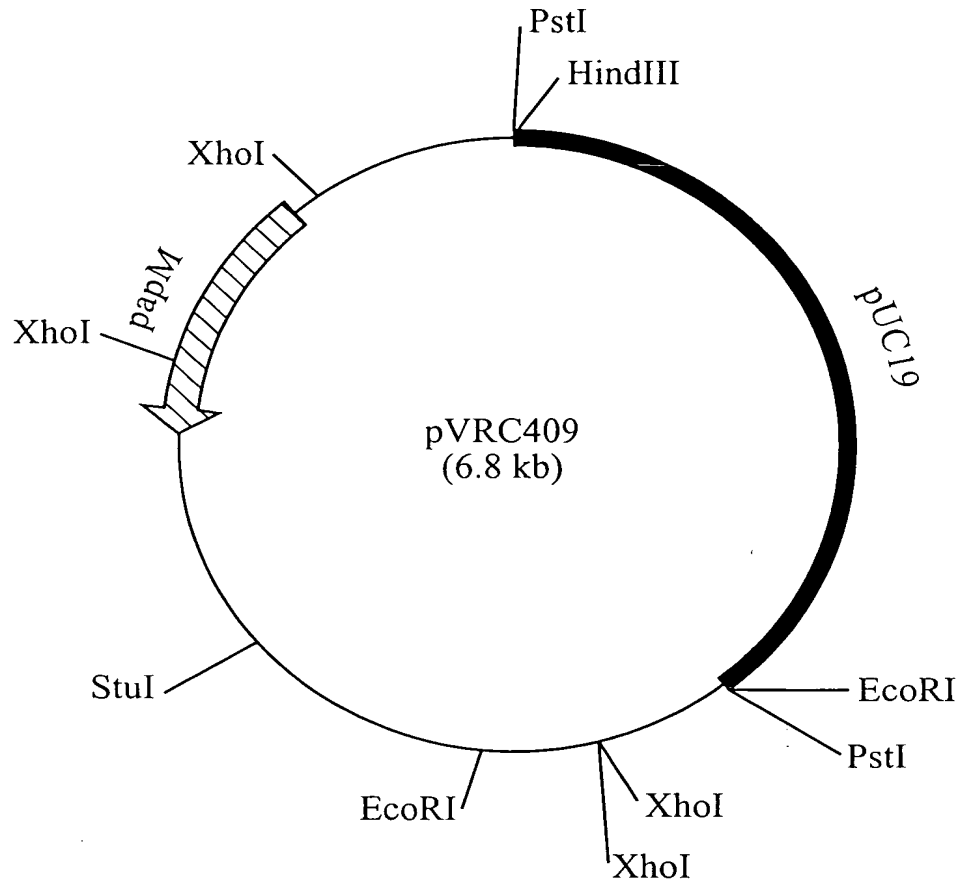


FIG. 24

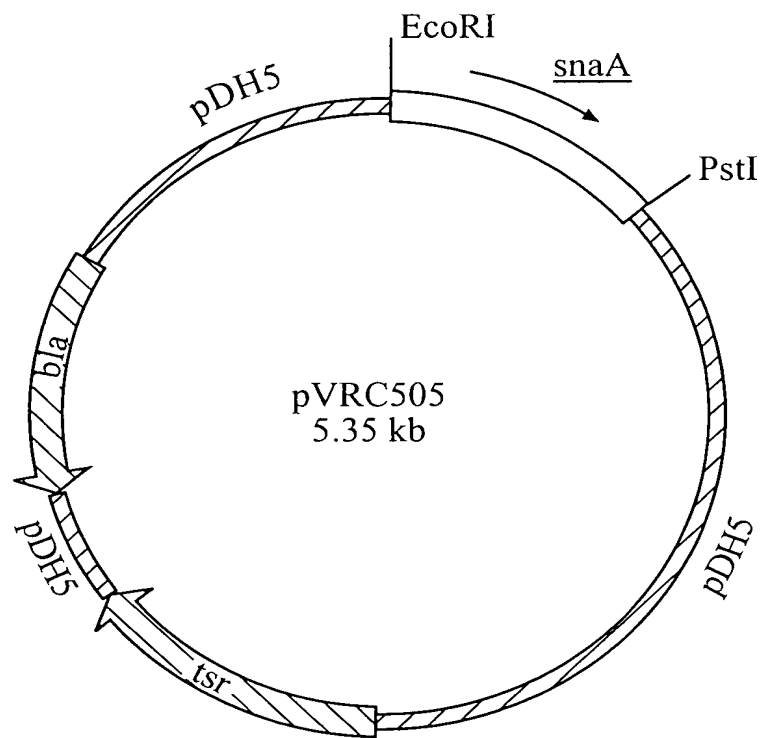


FIG. 25

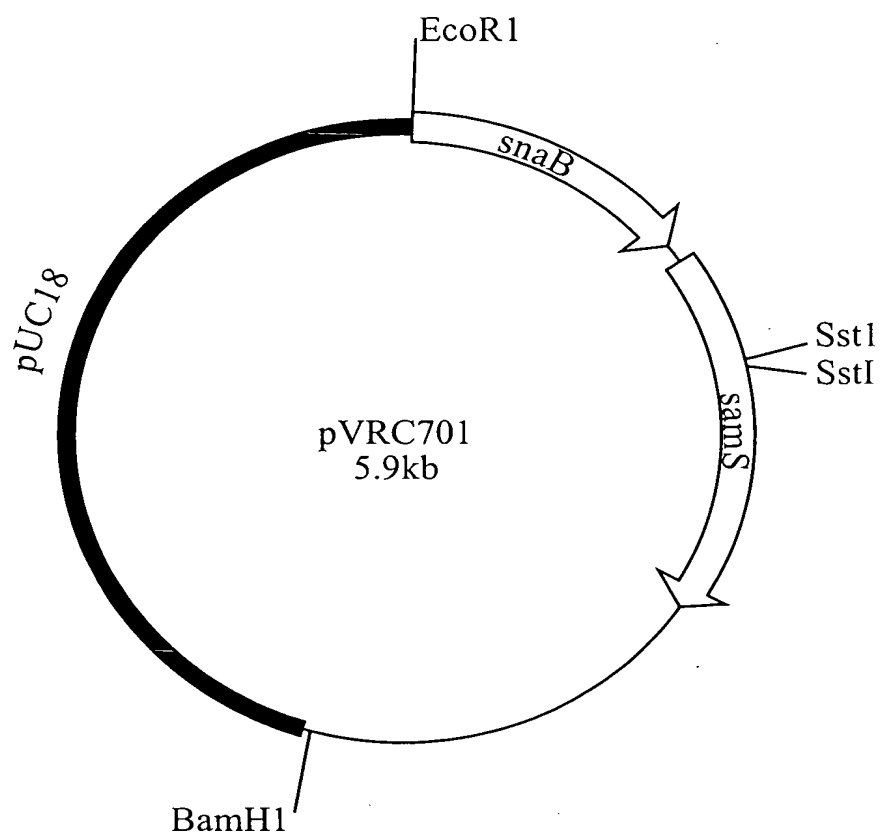


FIG. 26

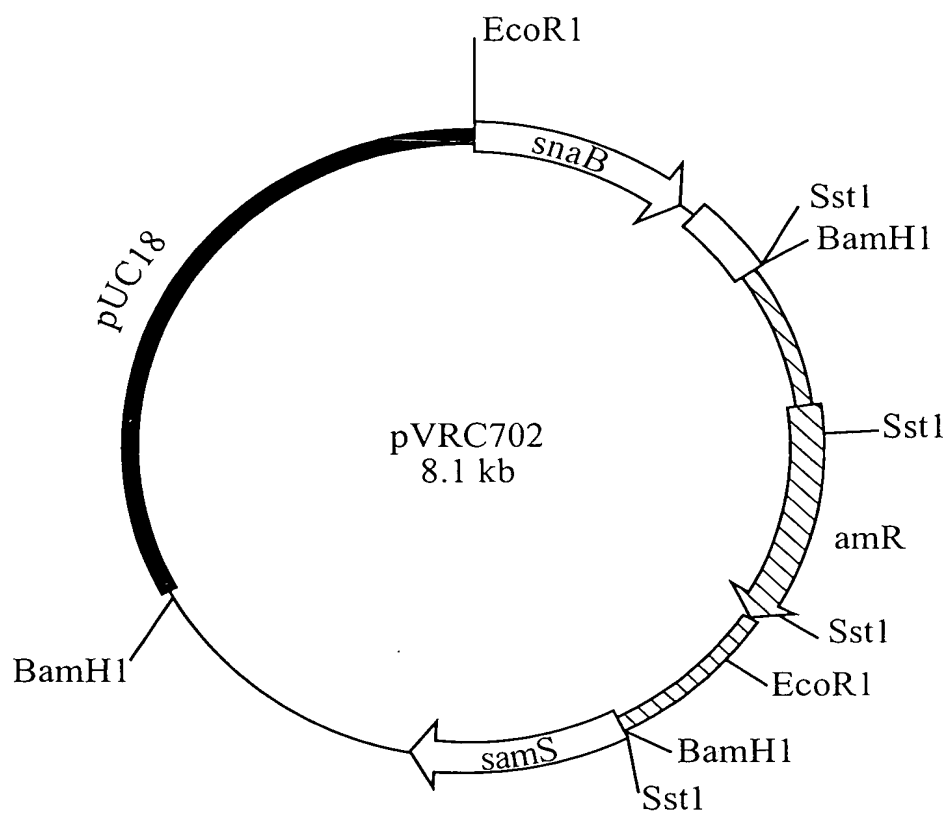


FIG. 27

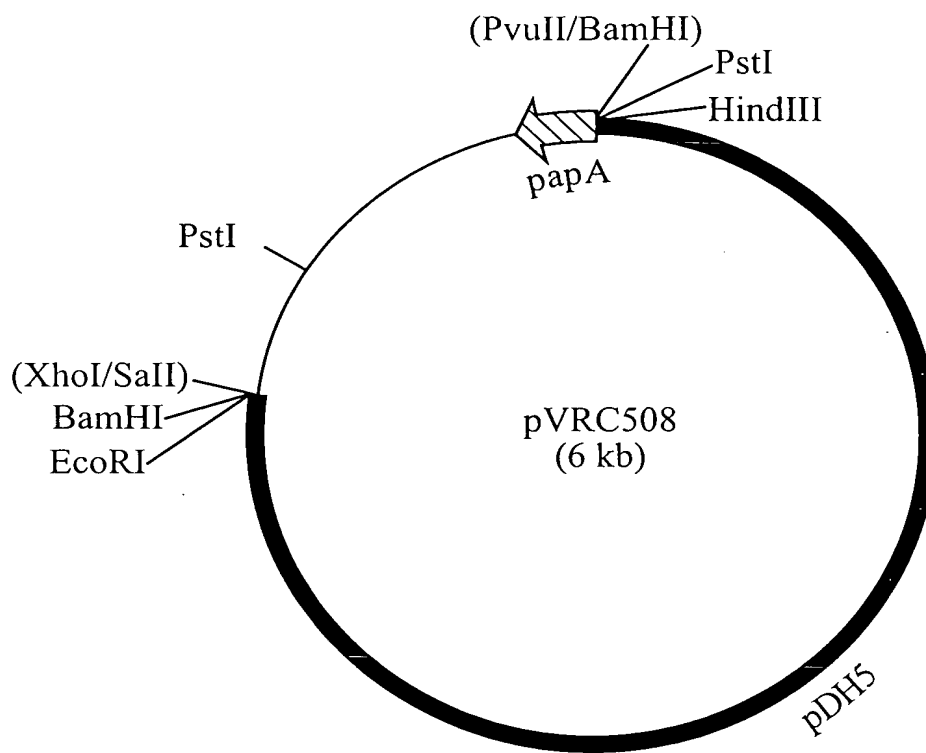


FIG. 28

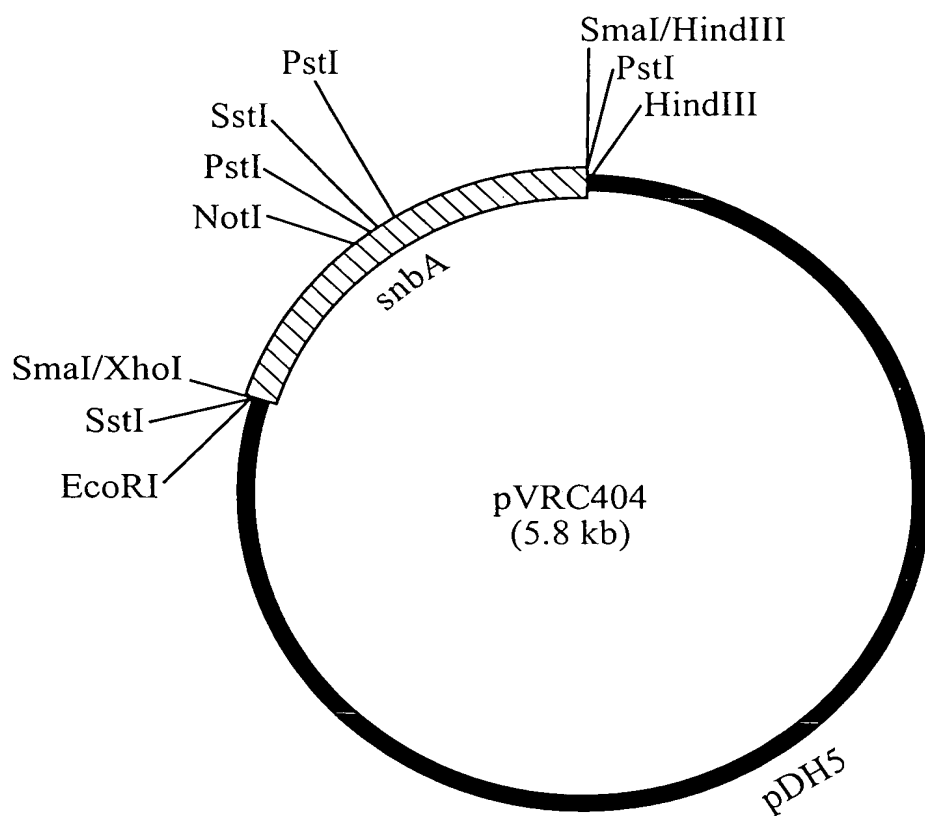


FIG. 29

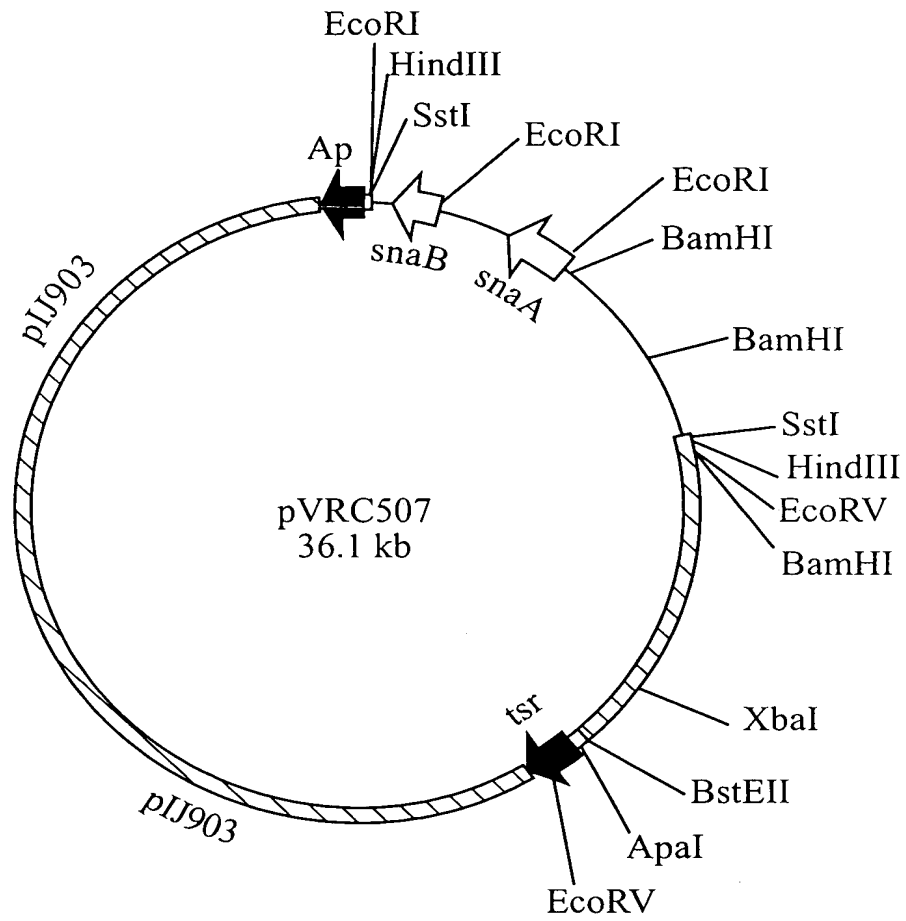


FIG. 30

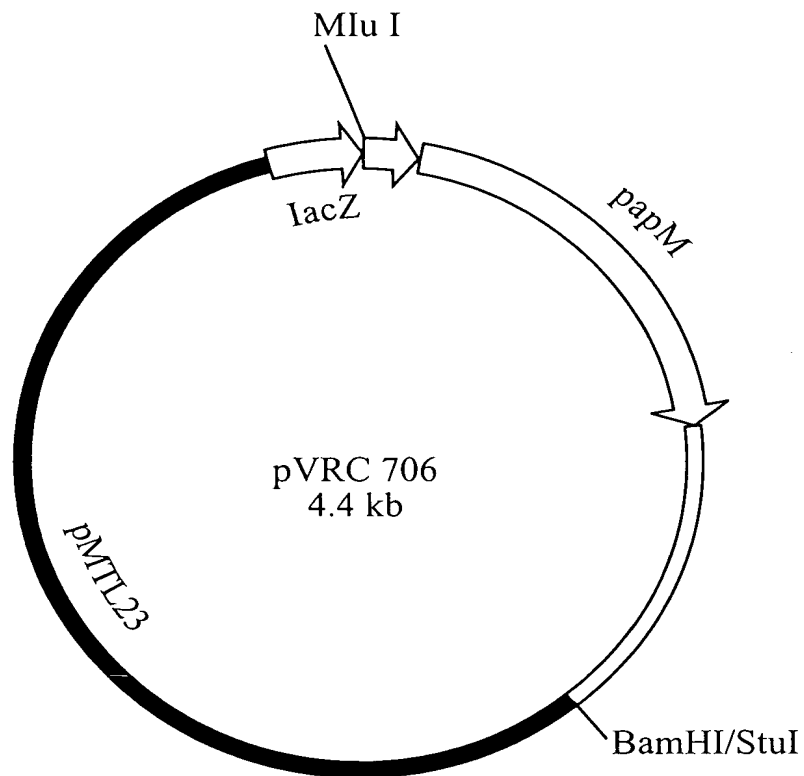


FIG. 31

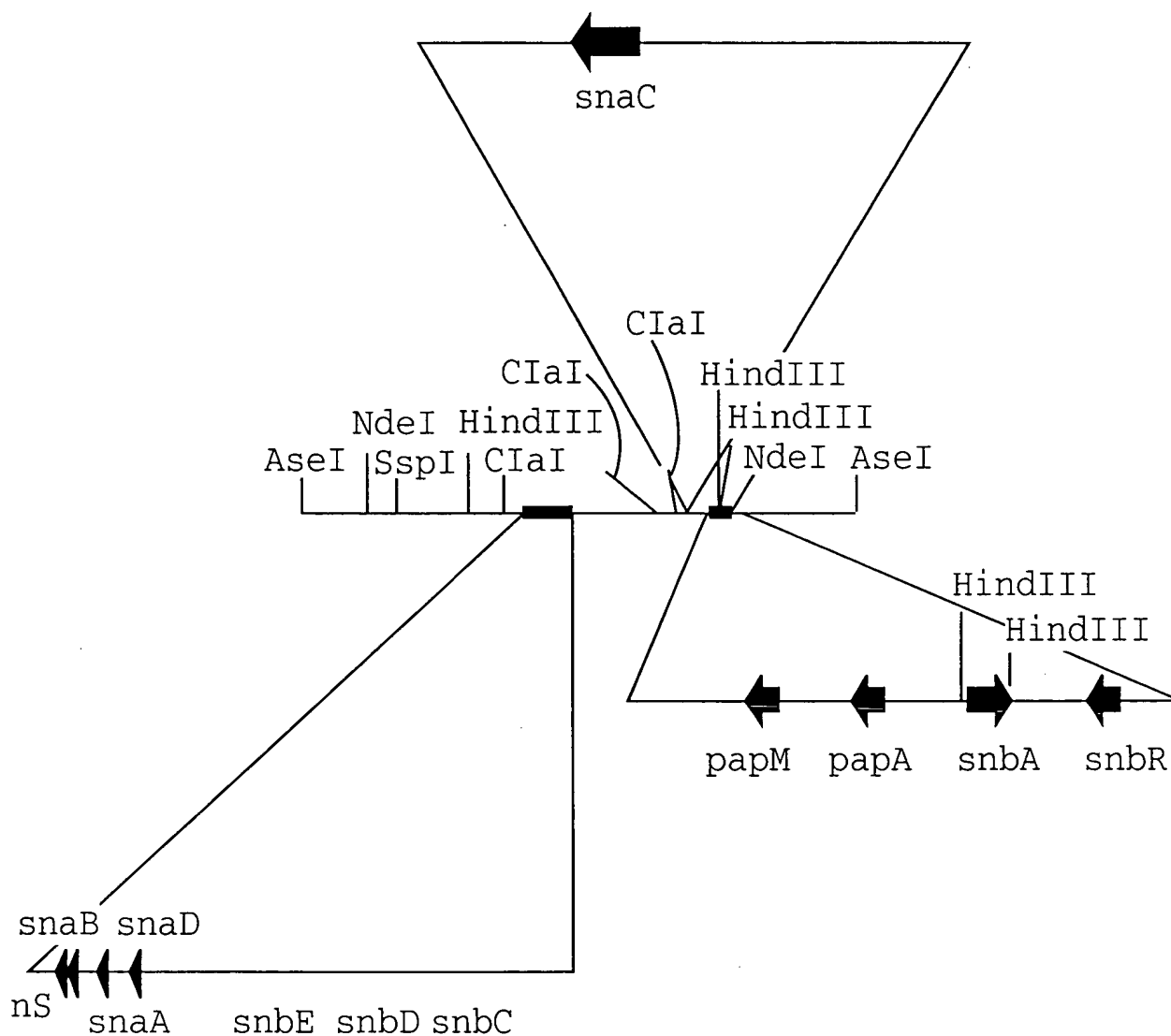


FIG. 32